

2070US Seq Listing.txt
SEQUENCE LISTING

<110> Davis, Keith

Zayed, Adel

Ascenzi, Robert

Boyes, Doug

Hoffman, Neil

Gorlach, Jorn

Woessner, Jeff

Hamilton, Carol

Phillips, Kenneth

<120> METHODS FOR THE IDENTIFICATION OF INHIBITORS OF FLAVANONE
3-HYDROXYLASE EXPRESSION OR ACTIVITY IN PLANTS

<130> 2070US

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<170> PatentIn version 3.0

<210> 1

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<212> DNA

<213> Arabidopsis thaliana

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<221> misc_feature

<223> TIGR database locus F24M12_280

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<213> Arabidopsis thaliana

<400> 2

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Pro | Gly | Thr | Leu | Thr | Glu | Leu | Ala | Gly | Glu | Ser | Lys | Leu | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Phe | Val | Arg | Asp | Glu | Asp | Glu | Arg | Pro | Lys | Val | Ala | Tyr | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Phe | Ser | Asp | Glu | Ile | Pro | Val | Ile | Ser | Leu | Ala | Gly | Ile | Asp | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Gly | Lys | Arg | Gly | Glu | Ile | Cys | Arg | Gln | Ile | Val | Glu | Ala | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Trp | Gly | Ile | Phe | Gln | Val | Val | Asp | His | Gly | Val | Asp | Thr | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Ala | Asp | Met | Thr | Arg | Leu | Ala | Arg | Asp | Phe | Phe | Ala | Leu | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |

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| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Pro | Glu | Asp | Lys | Leu | Arg | Phe | Asp | Met | Ser | Gly | Gly | Lys | Lys | Gly | Gly | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Phe | Ile | Val | Ser | Ser | His | Leu | Gln | Gly | Glu | Ala | Val | Gln | Asp | Trp | Arg | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | |
| Glu | Ile | Val | Thr | Tyr | Phe | Ser | Tyr | Pro | Val | Arg | Asn | Arg | Asp | Tyr | Ser | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Arg | Trp | Pro | Asp | Lys | Pro | Glu | Gly | Trp | Val | Lys | Val | Thr | Glu | Glu | Tyr | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Ser | Glu | Arg | Leu | Met | Ser | Leu | Ala | Cys | Lys | Leu | Leu | Glu | Val | Leu | Ser | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| Glu | Ala | Met | Gly | Leu | Glu | Lys | Glu | Ser | Leu | Thr | Asn | Ala | Cys | Val | Asp | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Met | Asp | Gln | Lys | Ile | Val | Val | Asn | Tyr | Tyr | Pro | Lys | Cys | Pro | Gln | Pro | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| Asp | Leu | Thr | Leu | Gly | Leu | Lys | Arg | His | Thr | Asp | Pro | Gly | Thr | Ile | Thr | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Leu | Leu | Leu | Gln | Asp | Gln | Val | Gly | Gly | Leu | Gln | Ala | Thr | Arg | Asp | Asn | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| Gly | Lys | Thr | Trp | Ile | Thr | Val | Gln | Pro | Val | Glu | Gly | Ala | Phe | Val | Val | | |
| | | | | 245 | | | | | 250 | | | | | 255 | | | |
| Asn | Leu | Gly | Asp | His | Gly | His | Phe | Leu | Ser | Asn | Gly | Arg | Phe | Lys | Asn | | |
| | | | 260 | | | | 265 | | | | | | 270 | | | | |
| Ala | Asp | His | Gln | Ala | Val | Val | Asn | Ser | Asn | Ser | Ser | Arg | Leu | Ser | Ile | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | |
| Ala | Thr | Phe | Gln | Asn | Pro | Ala | Pro | Asp | Ala | Thr | Val | Tyr | Pro | Leu | Lys | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |
| Val | Arg | Glu | Gly | Glu | Lys | Ala | Ile | Leu | Glu | Glu | Pro | Ile | Thr | Phe | Ala | | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | | |
| Glu | Met | Tyr | Lys | Arg | Lys | Met | Gly | Arg | Asp | Leu | Glu | Leu | Ala | Arg | Leu | | |
| | | | | 325 | | | | | 330 | | | | | 335 | | | |
| Lys | Lys | Leu | Ala | Lys | Glu | Glu | Arg | Asp | His | Lys | Glu | Val | Asp | Lys | Pro | | |
| | | | 340 | | | | | 345 | | | | | 350 | | | | |

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Val Asp Gln Ile Phe Ala
355